

Electronic Acknowledgement Receipt

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| EFS ID: | 5366387 |
| Application Number: | 10523167 |
| International Application Number: | |
| Confirmation Number: | 8220 |
| Title of Invention: | Method and apparatus to establish constellations for imperfect channel state information at a receiver |
| First Named Inventor/Applicant Name: | Mohammad Jaber Borran |
| Customer Number: | 23524 |
| Filer: | Callie M. Bell/Shana Haack |
| Filer Authorized By: | Callie M. Bell |
| Attorney Docket Number: | 088245-0799 |
| Receipt Date: | 20-MAY-2009 |
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| Application Type: | U.S. National Stage under 35 USC 371 |

Payment information:

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| Submitted with Payment | yes |
| Payment Type | Credit Card |
| Payment was successfully received in RAM | \$ 156 |
| RAM confirmation Number | 6854 |
| Deposit Account | |
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File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/ Message Digest | Multi Part /.zip | Pages (if appl.) |
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| 1 | Fee Worksheet (PTO-875) | fee-info.pdf | 30038 <small>37ee2f1a0b703e515cc6121094d3970412d27f1b</small> | no | 2 |
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